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Ehrenberg Improvement Association

WATER DEPARTMENT

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RE: Info Requested

DATE: 8/24/09

COMMENTS

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Arizona Corporation Commission

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SUNLAND ESTATES

PRELIMINARY DESIGN REPORT
FOR
POTABLE WATER SERVICE
FROM
KEATON DEVELOPMENT COMPANY

PREPARED BY
THE HARCUIVAR CO.
P. O. BOX 70
SALOME, AZ 85348
928-859-3647
jim@harcuvarco.com

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PARAGRAPHS 1 - 7
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EXHIBIT J

In the Matter of
EVELYN M. C
Deceased.
Case No. PB
NOTICE TO
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Arizona 85344
DATED this
/s/ Anita Rozan
Anita Rozan B
Personal Rep
LAW OFFICE
By /s/ J. Churc
John C. Churc
Attorney for Pe
Publish: 3-18

1.0 INTRODUCTION

Sunland is a 228 lot residential subdivision currently going through the plat approval process in La Paz County. A portion of Sunland is within the Keaton CC&N. The balance will be added to the CC&N. Due to Sunland's distance from Keaton and higher elevation, Keaton's pressure pumps can not supply Sunland without significantly raising distribution system operating pressures to existing customers. Therefore, Sunland will occupy a separate pressure zone. Well and storage improvements will serve existing customers and Sunland. Sunland will be served by separate pressure pumps and pressure tanks, supplied from the common storage tanks and wells.

2.0 KEATON'S EXISTING WATER USE

See Figure 1.

3.0 SUNLAND PROJECTED WATER USE

Sunland use and demand are projected to be greater than Keaton's existing customers. See Figure 2 for a projection of use and demand for each lot. See Figure 3 for projected use and demand for Sunland at build out. The annual water use for the new lots that are within Keaton's CC&N is projected to be 13.7 mgal/year. The annual water use for those lots proposed to be added to Keaton's CC&N is projected to be 7.1 mgal/year.

4.0 SUNLAND PROJECTED & KEATON EXISTING WATER USE & DEMAND

See Figure 3 for projection of water use and demand for Sunland combined with Keaton's existing.

5.0 KEATON EXISTING SUPPLY FACILITIES

See Figure 4 for a description of Keaton's existing wells, storage, pressure pumps and pressure tank. These data were provided from a report, funded by WIFA, done for Keaton by Gannett Fleming. Figure 4 also provides projected Keaton system additions required by Sunland at build out.

5.1 Wells

At build out the pump in Keaton well 2 will be replaced with a pump that discharges at least 147 gpm.

PUBLIC NOTICE
The La Paz County Planning and Zoning Commission will meet on Thursday, April 11, 2009 at 1:30 p.m. on the Board of Supervisors' meeting room at 1108 Joshua Avenue, Parker, Arizona to consider the following:

1. Docket No. Z2009-007 – Robert McLaughlin – APN(s): 307-03-050Z. The applicant is requesting to rezone eighty (80) acres from RA-4D (Rural Area – Forty Acres) to RA-10 (Rural Area – Ten Acres) to create eight (8) - ten (10) acre parcels for a future subdivision. The property is located at 47477 Gardner Lane in Bousso, Township 6 North, Range 16 West, Section 20 of the Gila and Salt River Meridian, La Paz County, Arizona (District 2).
2. Docket No. FP2009-002 – McLaughlin Subdivision – Robert McLaughlin – APN(s): 307-03-050Z. The applicant is requesting a Final Plat for eight (8) – ten (10) acre subdivided lots. The property is located at 47477 Gardner Lane in Bousso, Township 6 North, Range 16 West, Section 20 of the Gila and Salt River Meridian, La Paz County, Arizona (District 2).
3. Docket No. Z2009-004 – Robert T. and Shayla J. Colgan – APN(s): 310-35-160C. The applicants are requesting to

5.2 Storage

Storage requirements were calculated two ways.

(1) (Max day+fire flow volume)-smallest well daily flow-existing storage+equalization and dead storage=new storage. From Figures 3 and 4, $317,154 - 211,680 - 32,000 + 13,708 = 87,182$ gallons of new storage.

(2) (((max day+fire flow)-smallest well flow)*60)-existing storage+equalization and dead storage=new storage. From Figures 3 and 4, $((1,086-147)*60) - 32,000 + 13,708 = 38,048$ gallons new storage.

5.3 Pressure Pumps

The pumps were selected to provide a total maximum flow of 1,250 gpm.

5.4 Pressure tank

A 10,000 gallon pressure tank was chosen due to the extreme range of flows that will be encountered between minimum day and maximum day plus fire flow.

5.5 Distribution System

3,960 feet of main will be needed to connect Sunland to Keaton. An additional 32,000 feet of main will be installed within Sunland.

6.0 PROJECTED CONSTRUCTION COSTS

See Figure 5.

7.0 WATER QUALITY

The water supply will continue to be wells 2 and 3 for existing customers and Sunland. Therefore, no change in water quality or water treatment construction costs are anticipated.